

HYDROSTATIC VEHICLE DRIVING SYSTEM APPLICABLE TO A WORKING VEHICLE

ABSTRACT OF THE DISCLOSURE

A hydrostatic vehicle driving system structured from an engine to a drive axle in a working vehicle. A hydraulic pump driven by the engine and a variable displacement hydraulic motor for driving the drive axle are fluidly connected with each other through a hydraulic circuit. A motor capacity control system controls capacity of the hydraulic motor in correspondence to the condition of load on the engine. The motor capacity control system comprises load-detection means detecting hydraulic pressure in the hydraulic circuit replacing the load on the engine, a hydraulic actuator for changing the capacity of the hydraulic motor, and actuator-control means controlling the hydraulic actuator according to the detection of hydraulic pressure by the load-detection means.